

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. USFMC.R.66C2C1C2	APPLICATION NO. Unknown 10/805,608
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Zha, et al.	
		FILING DATE Herewith	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	10/437,202	05/12/03	Muller			
	2	10/674,694	09/30/03	Zha, et al.			
	3	10/676,458	09/30/03	Cox, et al.			
	4	10/738,628	12/16/03	Muller, et al.			
	5	10/759,560	01/15/04	Zha, et al.			
	6	10/774,041	02/06/04	Zha, et al.			
<i>DH</i>	7	2001-0027951	10/11/01	Gungerich et al.			
<i>PH</i>	8	2001-0052494	12/20/01	Cote et al.			
<i>PH</i>	9	2002-0148767	10/17/02	Johnson et al.			
<i>PH</i>	10	2002-0153299	10/24/02	Mahendran et al.			
<i>PH</i>	11	2002-0195390	12/26/02	Zha et al.			
<i>DH</i>	12	2003-0075504	04/24/03	Zha et al.			
<i>PH</i>	13	2003-0089659	05/15/03	Zha et al.			
<i>DH</i>	14	2003-0136746	07/24/03	Behman et al.			
<i>PH</i>	15	2003-0141248	07/31/03	Mahendran et al.			
<i>PH</i>	16	2003-0146153	08/07/03	Cote et al.			
<i>PH</i>	17	2003-0164332	09/04/03	Mahendran et al.			
<i>PH</i>	18	2003-0178365	9/25/03	Zha et al.			
<i>DH</i>	19	2003-0205519	11/06/03	Zha et al.			
<i>PH</i>	20	2003-0226797	12/11/03	Phelps			
<i>PH</i>	21	2003-0234221	12/11/03	Johnson et al.			
<i>PH</i>	22	2004-0000520	1/1/04	Gallagher et al.			
<i>PH</i>	23	2004-0007525	01/15/04	Rabie et al.			
<i>PH</i>	24	3,228,876	01/11/66	Mahon			
<i>PH</i>	25	3,693,406	09/72	Tobin, III			
<i>DH</i>	26	3,708,071	01/02/73	Richard P. Crowley			

EXAMINER <i>Pat. Tech.</i>	DATE CONSIDERED <i>9/7/04</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Zha, et al.	
		FILING DATE Herewith	GROUP Unknown

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
PLH	27	3,968,192	06/07/76	Hoffman et al.			
PLH	28	3,992,301	11/76	Shippey et al.			
PLH	29	4,188,817	02/80	Steigelmann			
PLH	30	4,192,750	03/11/80	Elfes et al.			
PLH	31	4,193,780	03/80	Cotton et al.			
PLH	32	4,218,324	08/19/80	Hartmann et al.			
PLH	33	4,248,648	02/81	Kopp			
PLH	34	4,384,474	05/83	Kowalski			
PLH	35	4,385,150	05/24/83	Miyake et al.			
PLH	36	4,451,369	05/29/84	Sekino et al.			
PLH	37	4,511,471	04/85	Müller			
PLH	38	4,540,490	09/10/85	Shibata et al.			
PLH	39	4,547,289	10/85	Okano et al.			
PLH	40	4,609,465	09/02/86	Miller			
PLH	41	4,614,109	09/86	Hoffman			
PLH	42	4,632,745	12/30/86	Giuffrida et al.			
PLH	43	4,636,296	01/13/87	Kunz			
PLH	44	4,642,182	02/87	Drori			
PLH	45	4,647,377	03/03/87	Miura			
PLH	46	4,650,596	03/17/87	Schlueter, et al.			
PLH	47	4,656,865	04/87	Callan			
PLH	48	4,660,411	04/87	Reid			
PLH	49	4,670,145	06/02/87	Edwards			
PLH	50	4,673,507	6/16/87	Brown			
PLH	51	4,687,561	08/18/87	Kunz			
PLH	52	4,688,511	08/25/87	Gerlach et al.			
PLH	53	4,718,270	01/88	Storr			

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	APPLICANT Zha, et al.	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
DL	54	4,744,240	05/88	Reichelt			
DL	55	4,756,875	07/12/88	Tajima et al.			
DL	56	4,767,539	8/88	Ford			
DL	57	4,779,448	10/88	Gogins			
DL	58	4,784,771	11/88	Wathen et al.			
DL	59	4,793,932	12/88	Ford et al.			
DL	60	4,797,211	01/89	Ehrfeld et al.			
DL	61	4,810,384	03/07/89	Fabre			
DL	62	4,812,235	03/14/89	Seleman et al.			
DL	63	4,816,160	03/89	Ford et al.			
DL	64	4,846,970	07/89	Bertelsen et al.			
DL	65	4,876,006	10/24/89	Ohkubo et al.			
DL	66	4,876,012	10/24/89	Kopp et al.			
DL	67	4,921,610	05/01/90	Ford et al.			
DL	68	4,931,186	06/05/90	Ford et al.			
DL	69	4,935,143	06/90	Kopp et al.			
DL	70	4,999,038	03/91	Lundberg			
DL	71	5,005,430	04/91	Kibler et al.			
DL	72	5,024,762	06/18/91	Ford et al.			
DL	73	5,066,375	11/19/91	Parsi et al.			
DL	74	5,066,401	11/19/91	Muller et al.			
DL	75	5,066,402	11/91	Anselme et al.			
DL	76	5,069,065	12/91	Sprunt et al.			
DL	77	5,076,925	12/31/91	Roesink et al.			
DL	78	5,079,272	01/07/92	Allegrezza, et al.			
DL	79	5,094,750	03/10/92	Kopp et al.			

EXAMINER <i>Daniel J. Loh</i>	DATE CONSIDERED <i>9/7/04</i>
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
DL	80	5,104,535	04/14/92	Cote et al.			
JK	81	5,104,546	04/92	Filson et al.			
JK	82	5,137,631	08/11/92	Eckman, et al.			
PL	83	5,138,870	08/92	Lyssy			
PL	84	5,151,191	09/29/92	Sunaoka et al.			
PL	85	5,151,193	09/29/02	Grobe et al.			
PL	86	5,158,721	10/27/92	Allegrezza, et al.			
PL	87	5,182,019	01/26/93	Cote et al.			
PL	88	5,192,456	3/93	Ishida et al.			
PL	89	5,194,149	03/16/93	Selbie et al.			
PL	90	5,198,116	03/93	Comstock et al.			
PL	91	5,209,852	05/11/93	Sunaoka, et al.			
PL	92	5,211,823	05/18/93	Giuffrida et al.			
PL	93	5,221,478	06/22/93	Dhingra et al.			
PL	94	5,227,063	07/13/93	Langerak, et al.			
PL	95	5,248,424	09/08/93	Cote et al.			
PL	96	5,297,420	03/94	Gilliland et al.			
PL	97	5,320,760	06/14/94	Freund et al.			
PL	98	5,353,630	10/94	Soda et al.			
PL	99	5,361,625	11/94	Ylvisaker			
PL	100	5,364,527	11/15/94	Zimmerman et al.			
PL	101	5,389,260	02/95	Hemp et al.			
PL	102	5,401,401	03/95	Hickok et al.			
PL	103	5,403,479	04/04/95	Smith et al.			
PL	104	5,405,528	04/11/95	Selbie et al.			
PL	105	5,417,101	05/23/95	Welch			
PL	106	5,419,816	05/95	Sampson et al.			

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
DL	107	5,470,469	11/28/95	Eckman			
DL	108	5,477,731	12/26/95	Mouton			
DL	109	5,480,553	01/02/96	Yamamori et al.			
DL	110	5,531,848	07/02/96	Brinda et al.			
DL	111	5,531,900	07/02/96	Raghaven et al.			
DL	112	5,543,002	08/06/96	Brinda et al.			
DL	113	5,554,283	09/10/96	Brinda et al.			
DL	114	5,607,593	03/04/97	Cote et al.			
DL	115	5,639,373	06/17/97	Mahendran et al.			
DL	116	5,643,455	07/01/97	Kopp et al.			
DL	117	5,783,083	07/21/98	Henshaw et al.			
DL	118	5,910,250	06/08/99	Mahendran et al.			
DL	119	5,914,039	06/22/99	Mahendran et al.			
DL	120	5,918,264	06/29/99	Drummond et al.			
DL	121	5,942,113	08/24/99	Morimura			
DL	122	5,944,997	08/31/99	Pedersen et al.			
DL	123	6,024,872	02/15/00	Mahendran et al.			
DL	124	6,039,872	03/21/00	Wu et al.			
DL	125	6,042,677	03/28/00	Mahendran et al.			
DL	126	6,048,454	04/00	Jenkins			
DL	127	6,077,435	6/20/00	Beck et al.			
DL	128	6,083,393	07/07/00	Wu et al.			
DL	129	6,146,747	11/14/00	Wang et al.			
DL	130	6,156,200	12/5/00	Zha et al.			
DL	131	6,159,373	12/00	Beck et al.			
DL	132	6,193,890	02/27/01	Pederson et al.			
DL	133	6,202,475	03/20/01	Selbie et al.			

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<i>PL</i>	134	6,245,239	06/12/01	Cote et al.			
<i>PL</i>	135	6,254,773	07/03/01	Biltoft			
<i>PL</i>	136	6,294,039	09/25/02	Mahendran et al.			
<i>PL</i>	137	6,303,035	10/16/01	Cote et al.			
<i>PL</i>	138	6,354,444	03/12/02	Mahendran et al.			
<i>PL</i>	139	6,440,303	08/02	Spriegel			
<i>PL</i>	140	6,524,481	2/25/03	Zha et al.			
<i>PL</i>	141	6,550,747	04/22/03	Rabie et al.			
<i>PL</i>	142	6,555,005	04/03	Zha et al.			
<i>PL</i>	143	6,620,319	09/16/03	Behmann et al.			
<i>PL</i>	144	6,627,082	09/30/03	Del Vecchio et al.			
<i>PL</i>	145	6,641,733	11/04/03	Zha et al.			
<i>PL</i>	146	6,645,374	11/11/03	Cote et al.			
<i>PL</i>	147	D462,699	09/10/02	Johnson et al.			
<i>PL</i>	148	D478,913	08/26/03	Johnson, et al.			
<i>PL</i>	149	H1,045	05/92	Wilson			
<i>PL</i>	150	RE37,549	02/19/02	Mahendran et al.			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
PL	151	DE 4 117 422	11/12/92	Germany (English language abstract)				X
PL	152	EP 920 904 A2	12/12/00 EPO 6-1999 EPO					
PL	153	EP 0 463 627 B1	05/10/95	EPO				
PL	154	EP 0 763 758 A1	10/02/96	EPO				
PL	155	EP 1 052 012 A1	11/15/00	EPO				
PL	156	FR 2 674 448 A1	02/10/92	France (English language abstract)				X

EXAMINER <i>P. J. Loh</i>	DATE CONSIDERED <i>9/7/04</i>
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FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>DL</i>	157	GB 2 253 572 A	09/16/92	United Kingdom				
<i>DL</i>	158	JP 01-307409	12/89	Japan (abstract only)				X
<i>DL</i>	159	JP 02-164423	06/25/90	Japan (abstract only)				X
<i>DL</i>	160	JP 02-284035	11/21/90	Japan (abstract only)				X
<i>DL</i>	161	JP 03-018373	01/25/91	Japan (abstract only)				X
<i>DL</i>	162	JP 03-028797	02/06/91	Japan (abstract only)				X
<i>DL</i>	163	JP 04-310223	11/02/92	Japan (abstract only)				X
<i>DL</i>	164	JP 05-023557	02/02/93	Japan (abstract only)				X
<i>DL</i>	165	JP 05-157654	06/93	Japan (abstract only)				X
<i>DL</i>	166	JP 06-071120	03/15/94	Japan (abstract only)				X
<i>DL</i>	167	JP 06-114240	04/26/94	Japan (abstract only)				X
<i>DL</i>	168	JP 07-000770	01/06/95	Japan (abstract only)				X
<i>DL</i>	169	JP 07-275665	10/24/95	Japan (abstract only)				X
<i>DL</i>	170	JP 08-010585	01/16/96	Japan (abstract only)				X
<i>DL</i>	171	JP 09-141063	06/06/97	Japan (abstract only)				X
<i>DL</i>	172	JP 10-156149	06/16/98	Japan (abstract only)				X
	173	JP 31-010445	05/10/91	Japan (abstract only)				X
<i>DL</i>	174	JP 58-088007	05/26/83	Japan (abstract only)				X
<i>DL</i>	175	JP 61-097006	05/15/86	Japan (abstract only)				X
<i>DL</i>	176	JP 61-107905	05/26/86	Japan (abstract only)				X
<i>DL</i>	177	JP 61-192309	08/26/86	Japan (translation only)			X	
<i>DL</i>	178	JP 61-257203	11/14/86	Japan (abstract only)				X
<i>DL</i>	179	JP 61-263605	11/21/86	Japan (abstract only)				X
<i>DL</i>	180	JP 62-004408	01/10/87	Japan (abstract only)				X
<i>DL</i>	181	JP 62-114609	05/26/87	Japan (abstract only)				X
<i>DL</i>	182	JP 62-140607	06/24/87	Japan (abstract only)				X

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FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
JH	183	JP 62-179540	08/06/87	Japan (abstract only)				X
JH	184	JP 63-097634	04/28/88	Japan (abstract only)				X
JH	185	JP 63-180254	02/01/90	Japan (abstract only)				X
JH	186	JP 63-143905	06/16/88	Japan (abstract only)				
JH	187	JP 06-343837	12/20/94	Japan (abstract only)				
JH	188	JP 07-185268	07/25/95	Japan (abstract only)				
JH	189	WO 90/00434	01/25/90	PCT				
JH	190	WO 93/02779	02/18/93	PCT				
JH	191	WO 96/41676	12/27/96	PCT				
JH	192	WO 96/07470	03/14/96	PCT				
JH	193	WO 98/22204	05/28/98	PCT				
JH	194	WO 01/36075	05/25/01	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
JH	195	Derwent Abstract Accession No. 2001-142268/15, Class A88, J01 JP, A1, 2000342932 (Mitsubishi Rayon Co. Ltd.), December 12, 2000.
JH	196	Almulla et al., Desalination 153 (2002) 237-243.
JH	197	Rosenberger et al., Desalination 151 (2002) 195-200.

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EXAMINER	<i>David Smith</i>	DATE CONSIDERED	9/7/04
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	INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
	APPLICANT Zha, et al.		FILING DATE March 19, 2004	GROUP 1723

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
<i>DSH</i>	1	Cote et al., Wat. Sci. Tech. 38(4-5) (1998) 437-442.

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EXAMINER	<i>DSH</i>	DATE CONSIDERED	<i>9/8/04</i>
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